

CCA #14**Navarro River****DESCRIPTION**

The Navarro River Watershed is located about 3 miles south of the town of Albion, with approximately 5.5 river miles within in the coastal zone, including the estuary. The watershed encompasses 315 square miles. The five major subdrainage basins include the Mainstem Navarro River, North Fork Navarro River, Indian Creek, Anderson Creek, and Rancheria Creek. Uses of this watershed include water supply and recreational uses, as well as a number of uses associated with the cold freshwater fishery.

This watershed has been impacted by sediment and high temperature, attributable in part to silviculture, grazing, and other Nonpoint Source (NPS) inputs.



Mouth of Navarro River

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For more photos, visit:
www.californiacoastline.org.

REASON FOR CCA IDENTIFICATION

The Navarro River was one of the original CCAs identified in 1995 as an **impaired waterbody that flows into an estuary**.

POLLUTED RUNOFF CONDITIONS

	Top 5 Runoff Pollutants of Concern					Efforts to Address Pollutants (See next page)
	<u>2002 303(d)-Listed Pollutants</u> TMDL Priority (& Proposed Completion)	<u>Other Pollutants</u>				
Selected Coastal Zone Waterbodies	<u>Sediment</u>	<u>Temperature</u> ¹	<u>Nutrients</u> ²	<u>?</u>	<u>?</u>	
Navarro River ▲	▲ High (2004)	▲	▲			
Navarro River Delta ■	■ High (2004)					
Navarro River Estuary •						
Potential Sources of Pollutants in Coastal Waterbodies						
Agriculture	▲	▲	▲			a, b, e
➤ Crop Production	▲					
➤ Grazing	▲					
Forestry (Silviculture)	▲	▲				a, b, c, d, e, f, h, j
➤ Harvesting & Restoration	▲					a, b, c, d, e, f
➤ Logging Roads	▲					a, b, c, d, e, f
Urban Areas		▲				a, b, e
➤ Construction/Land Development	▲					
➤ Highway/Road/Bridge	▲					g

Navarro River CCA

Construction						
Potential Sources of Pollutants, continued	<u>Sediment</u>	<u>Temperature</u>¹	<u>Nutrients</u>²	<u>?</u>	<u>?</u>	Efforts to Address Pollutants
Hydromodification		▲				a, b, e, h
➤ Flow Regulation/ Diversions	▲					
➤ Streambank Modification	▲					
Wetlands & Riparian Areas						a, b, c, e, h, i, j
➤ Removal of Riparian Vegetation	▲					
➤ Drainage/Filling of Wetlands	▲					
Erosion/Siltation	▲ ■					a, e, g, h
Habitat Modification	▲					a, b, e
Resource Extraction	▲					a, e
Unspecified Nonpoint Source	▲	▲				a, e

¹ Information on temperature as a pollutant of concern is from the North Coast Regional Water Quality Control Board.

² Information on nutrients as a pollutant of concern is from Pete Kalvass, Calif. Dept. of Fish & Game.

MAJOR EFFORTS TO IMPLEMENT NPS MANAGEMENT MEASURES

a)	Total Maximum Daily Load (TMDL) Implementation Plan Development			http://www.waterboards.ca.gov/northcoast/
	North Coast Regional Water Quality Control Board	Ben Zabinsky	(707) 576-2830	bzabinsky@waterboards.ca.gov
	➤ Region-wide basin plan amendment to the objectives for water temperature and dissolved oxygen. The objectives focus on the life stage requirements of anadromous salmonids in the North Coast region, include Navarro River.			
b)	Navarro Watershed Restoration Plan			
	Anderson Valley Land Trust/Mendocino County Water Agency	Connie Best	(707) 895-3150	avlt@mcn.org
	➤ The Plan (1998) discusses land use impacts on water quality and salmonid habitat from forestry, agriculture, and residential/commercial development; develops "recommended land management practices" to protect habitat.			
c)	Friends of the Navarro River			
		Steve Hall or Diane Paget	(707) 895-2735 (707) 895-2966	pipsteve@pacific.net
	➤ Water appropriations, riparian habitat (Riparian Protection Ordinance), and litigation against State Water Resources Control Board, agency watchdog.			
d)	Timber Harvest Plan review			http://www.waterboards.ca.gov/northcoast/
	North Coast Regional Water Quality Control Board	Christine Wright-Shacklett	(707) 576-2686	cwright-shacklett@waterboards.ca.gov
	➤ Regulatory oversight of numerous projects in the Navarro River watershed; review proposed Timber Harvest plans; issue waivers or Waste Discharge Requirements (permits); Stormwater program regulates construction activities.			
e)	Coastal Land Trust			
		Rixanne Wehren	(707) 937-2709	rixanne@mcn.org
	➤ Habitat protection for the estuarine and riverine habitats; conducted water quality monitoring, salmon spawning surveys, wetland habitat inventory, and estuary fish surveys on Albion River.			

Navarro River CCA

f)	Greenwood Watershed Association			http://www.elksoft.com/gwa/
	Redwood Coast Watershed Alliance	Mary Pjerrou	(707) 877-3405	pirohuck@mcn.org
	➤ A nonprofit citizens group for the promotion of sustainable forest practices and the protection of water quality, wildlife, fisheries and other forest resources. GWA is a member of the Redwood Coast Watershed Alliance.			
g)	Mill Creek Upslope Road Sediment Reduction Project			http://mrce.ca.nacdn.org/
	Mendocino County Resource Conservation District	Chamise Cubbison	(707) 468-9223	Chamise-Cubbison@ca.nacdn.org
	➤ Upgrade 6 miles of Holmes Ranch road system to reduce sediment entering the river system; these road segments are of particular concern due to the amount of sediment they deliver annually into the Mill Creek system.			
h)	Navarro Watershed Working Group			http://mrce.ca.nacdn.org/
	Mendocino County Resource Conservation District	Patty Madigan	(707) 964-0395	pmad@mcn.org
	➤ Working Group, with Watershed Coordinator, working with local landowners on projects to implement Navarro Watershed Restoration Plan recommendations.			
i)	Navarro-by-the-Sea Center for Riparian and Estuarine Research			http://navarro-by-the-sea-center.org/aboutus.html
		Clinton Smith		emailinfo@navarro-by-the-sea-center.org
	➤ Collect, preserve and disseminate historic and scientific research about the site of Navarro-by-the-Sea, its historic populations, and the river and estuary ecosystems, through research and education.			
j)	Klamath Resource Information System (KRIS) Navarro Project			http://www.krisweb.com/krisnavarro/krisdb/html/krisweb/index.htm
	KRIS Web	Pat Higgins	(707) 822-9428	phiggins@humboldt1.com
	➤ To assemble information useful in salmon recovery planning, KRIS pulls together maps, data tables, charts, photographs and bibliographic resources into an easy-to-use, PC-based computer program.			

REGULATORY/PLANNING JURISDICTIONS

➤ Mendocino County, Planning Dept.	http://www.co.mendocino.ca.us/planning/	Charles Hudson	(707) 964-5379	HUDSONC@co.mendocino.ca.us
➤ Mendocino County Water Agency		Roland Sanford	(707) 463-4589	sanfordr@co.mendocino.ca.us
➤ Calif. Coastal Commission, Water Quality Unit	http://www.coastal.ca.gov/nps/npsndx.html	Vanessa Metz	(707) 445-7873	vmetz@coastal.ca.gov
➤ North Coast Regional Water Quality Control Board, NPS Complaint Response	http://www.waterboards.ca.gov/northcoast/	Diana Henriouille-Henry	(707) 576-2350	dhenriouille-henry@waterboards.ca.gov
➤ State Water Resources Control Board	http://www.waterboards.ca.gov/	Heidi Hall	(916) 323-2871	hhall@waterboards.ca.gov
➤ California Coastal Conservancy	http://www.coastalconservancy.ca.gov/	Karyn Gear	(510) 286-4171	kgear@scc.ca.gov
➤ Calif. State Parks, Mendocino District	http://www.mcn.org/1/mendoparks/Index.htm	Peter Warner	(707) 937-5804	pwarn@mcn.org
➤ Calif. Dept. of Fish & Game	http://www.dfg.ca.gov/	Pete Kalvass	(707) 964-9080	pkalvass@dfg.ca.gov
➤ Caltrans, Stormwater Management	http://www.dot.ca.gov/hq/env/stormwater/	Alex Arevalo	(707) 445-6600	Alex_Arevalo@dot.ca.gov